

```
/* stop NPT for the media content instance*/
                                                                                                                                                                                                      /* start NPT for the media content instance*/
                                                                                                       char *guideData; /* program description, title, times */
                                                                  /* 0 = do not permanently record */
                                                                                                                                                                                                                                                                                   tsbStartNPT; /* start NPT for associated TSB
                                                                                                                                                                                                                                                                                                              tsbStopNPT; /* stop NPT for associated TSB
                                                                                                                                                                                                                                                           /* handle for associated TSB
                                                                                           /* file handle, 0 = file closed
                                                                                                                                                                          /* actual record stop time
                                                                                                                                                /* actual record start time
                                                                                                                                               startTime;
                                                                                                                                                                                                                              stopNPT;
                                                                                                                                                                                                                                                        tsbHandle
                                                                                                                                                                                                   startNPT;
struct ProgramInfo
                                                                                                                                                                         stopTime;
                                                                                                                                                                                                                                                                                                                                        /* additional data */
                                                               recorded;
                            char *filename;
                                                                                         handle;
                                                          415 bool 1
                                                                                                                                       430 time :
                                                                                     10t 420
                                                                                                                                                                   435 ____ time
                                                                                                                                                                                                                                                                                                             455 —int
                                                                                                                                                                                                                             440 -- int
                                                                                                                                                                                                   437 ___ int
                                                                                                                                                                                                                                                       445 — int
                                                                                                                                                                                                                                                                                   450 int
```

FIG. 4A

The proof of the p

FIG. 5A

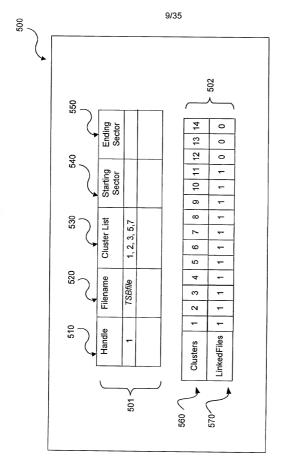


FIG. 5B

FIG. 5C

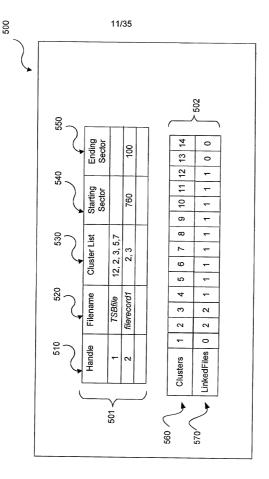
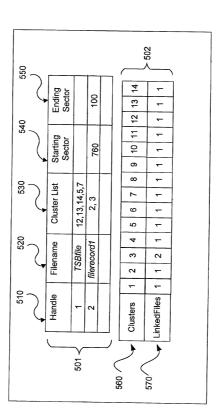


FIG. 5D

FIG. 5E



The state of the s

```
struct clusterInfo /* cluster entry data in FAT */
{
    short numLinkedFiles; /* number of linked files */
    /* additional data */
}
```

FIG. 6A

```
struct RecordedFileInfo
{
    ClusterList clusterList; // ordered list of clusters */
    unsigned startingSector;
    unsigned endingSector;
    /* additional data */
}
```

FIG. 6B

```
struct TSBfileInfo
{
    ClusterList clusterList; /* ordered list of clusters
    /* additional data */
}
```

FIG. 6C

void dvrm_TimeShift (ui32 *handle, TV_ID tvld)

FIG. 7A

dvrm_Record (ui32 *handle, TV_ID tvld, char *filename, eDvr_Quality quality)

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FIG. 7B

dvrm_TimeShiftRecord (ui32 *handle, ui32 *tsbHandle, char *filename, i32 startNpt, i32 stopNpt)

FIG. 70

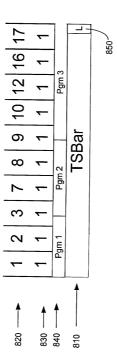
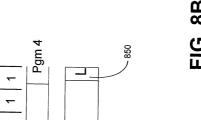
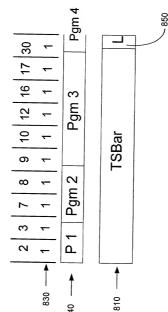
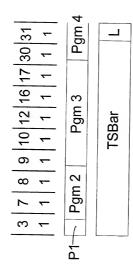


FIG. 8A







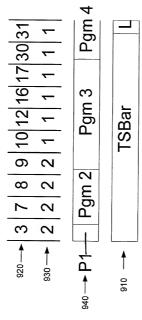
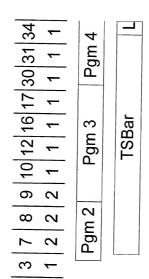


FIG. 9A



The state of the s

35	_		_
34 35	_ '	۲ ل	
10 12 16 17 30 31	_	Fgm 4	
30	-	_	
17	-		3ar
16	-	ა	TSBar
7	-	Fgm 3	
6 -	-	-	
6			
8 0	1 6	rgm 2	
7	_ }	<u>ה</u>	
		ſ	

FIG. 9C

36		
35	4	
34	Pgm 4	
31	9	
30		3ar
17		TSBar
16	8	
12	Pgm 3	
10 12 16 17 30 31 34 1 1 1 1 1 1 1		
0 0		
∞ ←	Pgm 2	
7	Pgr	

FIG. 9D

2

TSBar

		Pgm
37		1
36	_	
35		4
34	_	Pgm
	_	
30 31	_	
17	_	
16 17	_	n 3
	_	Pgm
10 12	_	
6	_	
∞	_	gm 2
_	_	Pgn
က	_	

FIG. 9E

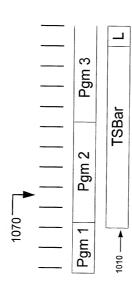
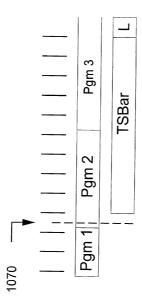
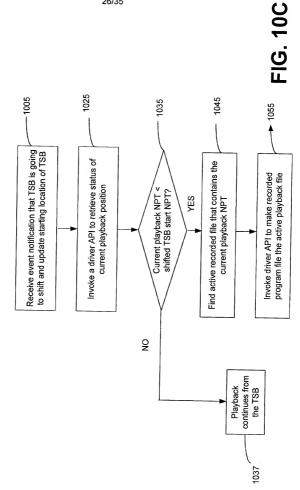


FIG. 10A



The state of the s



dvrm_Status (ui32 handle, *i32 npt, sDvr_Scale *scale, ui32 *mode)

FIG. 10D

FIG. 10E

void dvrm ConvertPlay (ui32 tsbHandle, ui32 handle)

		0.0	
36	~		
35	_	4	
34	_	Pgm 4	
31	_	<u>a</u> ,	
30	2		TSBar
17	7		ISI
16	7	3	
12	7	Pgm 3	
10 12 16 17 30 31 34 35 36	7		
6	3		
∞	_	٦ 2	
7	_	Pgm 2	
3	_		

FIG. 11A

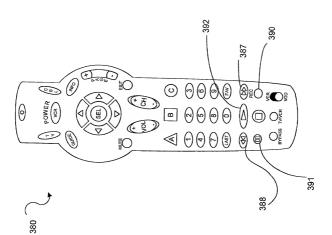
		Pgm 5
37	_	٥
36	_	
35	_	4
34	_	Pgm
34	_	
30 31	_	
17	7	
16 17	2	က
12	2	Pgm 3
10 12	7	
ဝ	7	
8	_	Pgm 2
7	_	Pg
3	_	

FIG. 11B

		٠ ' ړۍ '	
38	_	Pgm	
37	_	ď.	
36	_		
35	_	4	
34	_	Pgm 4	,
31	_		0
30	_		
17	2		
16	2	3	
12	7	Pgm 3	
10 12 16 17 30 31 34 35 36 37 38	_		
0	7		
∞	_	n 2	
7	_	Pgm	
က	_		

FIG. 11C

FIG. 12



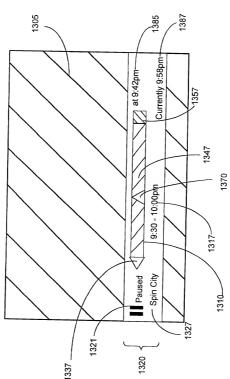


FIG. 13A

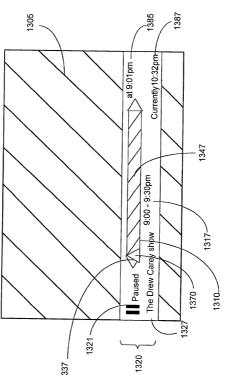


FIG. 13B

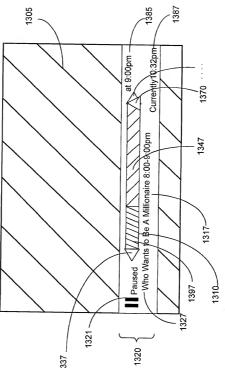


FIG. 13C

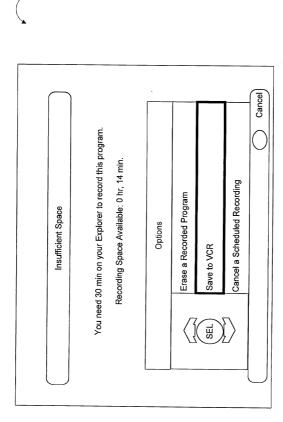


FIG. 14